

10/02

#6



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RAW SEQUENCE LISTING

DATE: 10/02/2002

PATENT APPLICATION: US/10/015,115

TIME: 14:23:47

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3 <110> APPLICANT: Malyankar, Uriel M
 4 Shenoy, Suresh G
 5 Spytek, Kimberly A
 6 Zerhusen, Bryan D
 7 Patturajan, Meera
 8 Guo, Xiaojia
 9 Kekuda, Ramesha
 10 Gangolli, Esha A
 11 Shimkets, Richard A
 12 Taupier, Raymond J
 13 Li, Li
 14 Padigar, Muralidhara
 16 <120> TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
 17 Using the Same
 19 <130> FILE REFERENCE: 21402-211
 21 <140> CURRENT APPLICATION NUMBER: 10/015,115
 C--> 22 <141> CURRENT FILING DATE: 2002-09-23
 24 <150> PRIOR APPLICATION NUMBER: 60/248,153
 25 <151> PRIOR FILING DATE: 2000-11-13
 27 <150> PRIOR APPLICATION NUMBER: 60/249,598
 28 <151> PRIOR FILING DATE: 2000-11-17
 30 <150> PRIOR APPLICATION NUMBER: 60/264,240
 31 <151> PRIOR FILING DATE: 2001-01-26
 33 <150> PRIOR APPLICATION NUMBER: 60/266,127
 34 <151> PRIOR FILING DATE: 2001-02-02
 36 <150> PRIOR APPLICATION NUMBER: 60/269,562
 37 <151> PRIOR FILING DATE: 2001-02-16
 39 <150> PRIOR APPLICATION NUMBER: 60/304,348
 40 <151> PRIOR FILING DATE: 2001-07-10
 42 <150> PRIOR APPLICATION NUMBER: 60/309,261
 43 <151> PRIOR FILING DATE: 2001-07-31
 45 <150> PRIOR APPLICATION NUMBER: 60/313,283
 46 <151> PRIOR FILING DATE: 2001-08-17
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 53 <211> LENGTH: 1668
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63 gactctcagg aatacacaga gtacgctgtg aagagtcctt ccaatgaaaa ctatgggggtt 360
64 tataactgta gcatcataaa tgaagctgga gctgggagat gcagctttct tgttacagg 420
65 ggaaaggcct atgtctcaga attctattat gataacctaca atccagtatg gcagaacaga 480
66 caccgtgttt attcttacag tctacagtgg acacagatga atcctgatgc agtggatcgg 540
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69 attaaaccag aagcttatga agtccgactg actcctctca ccaaatttgg tgaaggagat 720
70 tcaacaattc gtgtgatcaa atatagtcct gtaaactctc atttgagtga atttcattgt 780
71 ggatttgaag atggtaatat ttgtttgttc actcaagatg atacagataa ttttgactgg 840
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90 <212> TYPE: PRT

91 <213> ORGANISM: Homo sapiens

93 <400> SEQUENCE: 2

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100 Phe Asn Val Lys Pro Arg Glu Ala Leu Val Gln Leu Ile Val Gln Tyr
101 35 40 45
103 Pro Pro Ala Val Glu Pro Ala Phe Leu Glu Ile Arg Gln Gly Gln Asp
104 50 55 60
106 Arg Ser Val Thr Met Ser Cys Arg Val Leu Arg Ala Tyr Pro Ile Arg
107 65 70 75 80
109 Val Leu Thr Tyr Glu Trp Arg Leu Gly Asn Lys Leu Leu Arg Thr Gly
110 85 90 95
112 Gln Phe Asp Ser Gln Glu Tyr Thr Glu Tyr Ala Val Lys Ser Leu Ser
113 100 105 110
115 Asn Glu Asn Tyr Gly Val Tyr Asn Cys Ser Ile Ile Asn Glu Ala Gly
116 115 120 125
118 Ala Gly Arg Cys Ser Phe Leu Val Thr Gly Gly Lys Ala Tyr Ala Pro
119 130 135 140
121 Glu Phe Tyr Tyr Asp Thr Tyr Asn Pro Val Trp Gln Asn Arg His Arg

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Input Set : A:\Cura-511.app

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128          180          185          190
130 Arg Trp Trp Glu Gln Glu Ile Lys Ile Asn Gly Asn Ile Gln Lys Gly
131          195          200          205
133 Glu Leu Ile Thr Tyr Asn Leu Thr Glu Leu Ile Lys Pro Glu Ala Tyr
134          210          215          220
136 Glu Val Arg Leu Thr Pro Leu Thr Lys Phe Gly Glu Gly Asp Ser Thr
137 225          230          235          240
139 Ile Arg Val Ile Lys Tyr Ser Pro Val Asn Pro His Leu Ser Glu Phe
140          245          250          255
142 His Cys Gly Phe Glu Asp Gly Asn Ile Cys Leu Phe Thr Gln Asp Asp
143          260          265          270
145 Thr Asp Asn Phe Asp Trp Thr Lys Gln Ser Thr Ala Thr Arg Asn Thr
146          275          280          285
148 Lys Tyr Thr Pro Asn Thr Gly Pro Asn Ala Asp Arg Ser Gly Ser Lys
149          290          295          300
151 Glu Gly Phe Tyr Met Tyr Ile Glu Thr Ser Arg Pro Arg Leu Glu Gly
152 305          310          315          320
154 Glu Lys Ala Arg Leu Leu Ser Pro Val Phe Ser Ile Ala Pro Ala Leu
155          325          330          335
157 Phe Ser Ala Arg Leu Leu Ser Pro Val Phe Ser Ile Ala Pro Lys Asn
158          340          345          350
160 Pro Tyr Gly Pro Thr Asn Thr Ala Tyr Cys Phe Ser Phe Phe Tyr His
161          355          360          365
163 Met Tyr Gly Gln His Ile Gly Val Leu Asn Val Tyr Leu Arg Leu Lys
164          370          375          380
166 Gly Gln Thr Thr Ile Glu Asn Pro Leu Trp Ser Ser Ser Gly Asn Lys
167 385          390          395          400
169 Gly Gln Arg Trp Asn Glu Ala His Val Asn Ile Tyr Pro Ile Thr Ser
170          405          410          415
172 Phe Gln Leu Ile Phe Glu Gly Ile Arg Gly Pro Gly Ile Glu Gly Asp
173          420          425          430
175 Ile Ala Ile Asp Asp Val Ser Ile Ala Glu Gly Glu Cys Ala Lys Gln
176          435          440          445
178 Asp Leu Ala Thr Lys Asn Ser Val Asp Gly Ala Val Gly Ile Leu Val
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DATE: 10/02/2002

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Input Set : A:\Cura-511.app

Output Set: N:\CRF4\10022002\J015115.raw

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198 tacgggtgct gacctatgag tggcgcttgg gcaataaatt attacggacg ggtcaatttg 300
199 actctcagga atacacagag tacgctgtga agagtctttc caatgaaaac tatggggttt 360
200 ataactgtag catcataaat gaagctggag ctgggagatg cagcttttctt gttacaggaa 420
201 aggcctatgc tccagaattc tattatgata cctacaatcc agtatggcag aacagacacc 480
202 gtgttttatt ttacagtcta cagtggacac agatgaatcc tgatgcagtg gatcggattg 540
203 ttgcataccg gttgggcatc aggcaggctg gacagcagcg ctgggtgggag caggagatta 600
204 aaataaatgg gaataattcaa aagggagaat taattacata taacttgaca gagctaatta 660
205 aaccagaagc ttatgaagtc cgactgactc ctctcaccaa atttggtgaa ggagattcaa 720
206 caattcgtgt gatcaaatat agtgctcctg taaatcctca tttgagagaa tttcattgtg 780
207 gatttgaaga tggtaatatt tgtttgttca ctcaagatga tacagataat tttgactgga 840
208 caaagcaaag tacagcaaca agaaatacaa aatatactcc taatacagga cctaattgctg 900
209 accgtagtgg ctccaaagaa ggtttttata tgtacattga gacatcacga cccagattgg 960
210 aaggcgaaaa ggctcgactt ctcagccctg ttttcagcat agctcccaaa aacccttatg 1020
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218 ggcactggca tgaagaaaga gtctttgtaa atggacattg aacaaacaaa ctaccaaaga 1500
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225 <212> TYPE: PRT

226 <213> ORGANISM: Homo sapiens

228 <400> SEQUENCE: 4

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236 35 40 45
238 Pro Pro Ala Val Glu Pro Ala Phe Leu Glu Ile Arg Gln Gly Gln Asp
239 50 55 60
241 Arg Ser Val Thr Met Ser Cys Arg Val Leu Arg Ala Tyr Pro Ile Arg
242 65 70 75 80
244 Val Leu Thr Tyr Glu Trp Arg Leu Gly Asn Lys Leu Leu Arg Thr Gly
245 85 90 95
247 Gln Phe Asp Ser Gln Glu Tyr Thr Glu Tyr Ala Val Lys Ser Leu Ser
248 100 105 110
250 Asn Glu Asn Tyr Gly Val Tyr Asn Cys Ser Ile Ile Asn Glu Ala Gly
251 115 120 125
253 Ala Gly Arg Cys Ser Phe Leu Val Thr Gly Lys Ala Tyr Ala Pro Glu
254 130 135 140
256 Phe Tyr Tyr Asp Thr Tyr Asn Pro Val Trp Gln Asn Arg His Arg Val

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Input Set : A:\Cura-511.app

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257 145          150          155          160
259 Tyr Ser Tyr Ser Leu Gln Trp Thr Gln Met Asn Pro Asp Ala Val Asp
260          165          170          175
262 Arg Ile Val Ala Tyr Arg Leu Gly Ile Arg Gln Ala Gly Gln Gln Arg
263          180          185          190
265 Trp Trp Glu Gln Glu Ile Lys Ile Asn Gly Asn Ile Gln Lys Gly Glu
266          195          200          205
268 Leu Ile Thr Tyr Asn Leu Thr Glu Leu Ile Lys Pro Glu Ala Tyr Glu
269          210          215          220
271 Val Arg Leu Thr Pro Leu Thr Lys Phe Gly Glu Gly Asp Ser Thr Ile
272 225          230          235          240
274 Arg Val Ile Lys Tyr Ser Ala Pro Val Asn Pro His Leu Arg Glu Phe
275          245          250          255
277 His Cys Gly Phe Glu Asp Gly Asn Ile Cys Leu Phe Thr Gln Asp Asp
278          260          265          270
280 Thr Asp Asn Phe Asp Trp Thr Lys Gln Ser Thr Ala Thr Arg Asn Thr
281          275          280          285
283 Lys Tyr Thr Pro Asn Thr Gly Pro Asn Ala Asp Arg Ser Gly Ser Lys
284          290          295          300
286 Glu Gly Phe Tyr Met Tyr Ile Glu Thr Ser Arg Pro Arg Leu Glu Gly
287 305          310          315          320
289 Glu Lys Ala Arg Leu Ser Pro Val Phe Ser Ile Ala Pro Lys Asn
290          325          330          335
292 Pro Tyr Gly Pro Thr Asn Thr Ala Tyr Cys Phe Ser Phe Phe Tyr His
293          340          345          350
295 Met Tyr Gly Gln His Ile Gly Val Leu Asn Val Tyr Leu Arg Leu Lys
296          355          360          365
298 Gly Gln Thr Thr Ile Glu Asn Pro Leu Trp Ser Ser Ser Gly Asn Lys
299          370          375          380
301 Gly Gln Arg Trp Asn Glu Ala His Val Asn Ile Tyr Pro Ile Thr Ser
302 385          390          395          400
304 Phe Gln Leu Ile Phe Glu Gly Ile Arg Gly Pro Gly Ile Glu Gly Asp
305          405          410          415
307 Ile Ala Ile Asp Asp Val Ser Ile Ala Glu Gly Glu Cys Ala Lys Gln
308          420          425          430
310 Asp Leu Ala Thr Lys Asn Ser Val Asp Gly Ala Val Gly Ile Leu Val
311          435          440          445
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/015,115

DATE: 10/02/2002
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Input Set : A:\Cura-511.app
Output Set: N:\CRF4\10022002\J015115.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 49,98,104,106